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<input type="checkbox"/>	L78	L77 and (((search\$ or quer\$ or inquir\$ or enquir\$) same (((mail\$ or postal) adj1 address\$) or dictionary))	14
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<input type="checkbox"/>	L73	L72 and (((mail\$ or postal) adj1 address\$) same dictionary)	6
<input type="checkbox"/>	L72	(L68 or L69 or L70 or L71) and ((mail\$ or postal) adj1 address\$)	385
<input type="checkbox"/>	L71	(704/10).ccls.	232
<input type="checkbox"/>	L70	(382/101 382/102).ccls.	166
<input type="checkbox"/>	L69	(707/100).ccls.	1603
<input type="checkbox"/>	L68	(707/2 707/3 707/4 707/5).ccls.	4787
<input type="checkbox"/>	L67	L66 and (dictionary same (tree or root or node\$ or leaf))	1
<input type="checkbox"/>	L66	L64 and dictionary	5
<input type="checkbox"/>	L65	L64 and (((mail\$ or postal) adj1 address\$) same dictionary)	1
<input type="checkbox"/>	L64	L63 and ((mail\$ or postal) adj1 address\$)	126

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09/916, 399

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<input type="checkbox"/>	L59	(L54 or L55 or L56) and (((mail\$ or postal) adj1 address\$) same dictionary)	2
<input type="checkbox"/>	L58	(L54 or L55 or L56) and ((mail\$ or postal) adj1 address\$)	2
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<input type="checkbox"/>	L54	bellamy-david-john.in.	2

DB=USPT; PLUR=NO; OP=OR

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<input type="checkbox"/>	L49	L47 and (data adj1 base\$)	1
<input type="checkbox"/>	L48	L47 and database\$	1
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<input type="checkbox"/>	L45	L43 and (input\$ same address\$)	16
<input type="checkbox"/>	L44	L43 and (input same address\$)	16
<input type="checkbox"/>	L43	(postal adj1 address\$).ti.	66

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<input type="checkbox"/>	L41 L36 and (root or node\$ or leaf\$)	6
<input type="checkbox"/>	L40 L39 and input\$	4
<input type="checkbox"/>	L39 L38 and (tree or root or leaf\$ or branch\$ or levels\$)	4
<input type="checkbox"/>	L38 L36 and (dictionary same (entry or entries))	8
<input type="checkbox"/>	L37 (dictionary same (entry or entries))	1742
<input type="checkbox"/>	L36 ((search\$ or quer\$ or inquir\$ or enquir\$) same dictionary).ti.	17
<input type="checkbox"/>	L35 ((mail\$ adj1 address\$) same (search\$ or quer\$ or inquir\$ or enquir\$))	706
<input type="checkbox"/>	L34 ((postal adj1 address\$) same (search\$ or quer\$ or inquir\$ or enquir\$))	28
<input type="checkbox"/>	L33 L32 and (address\$ same (search\$ or quer\$ or inquir\$ or enquir\$))	1429
<input type="checkbox"/>	L32 address\$.ti.	7944
<input type="checkbox"/>	L31 L30 and (search\$ or quer\$ or inquir\$ or enquir\$)	153
<input type="checkbox"/>	L30 ((mail\$ or postal) adj1 address\$.ab.	288
<input type="checkbox"/>	L29 L28 and (search\$ or quer\$ or inquir\$ or enquir\$)	15
<input type="checkbox"/>	L28 ((mail\$ or postal) adj1 address\$.ti.	25

DB=USPT; PLUR=NO; OP=OR

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DB=USPT,USOC; PLUR=NO; OP=OR

<input type="checkbox"/>	L26 L25 and tree	49
<input type="checkbox"/>	L25 L24 same database\$	288
<input type="checkbox"/>	L24 ((search\$ or quer\$ or inquir\$ or enquir\$) same ((postal or mail\$) adj1 address\$))	721

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<input type="checkbox"/>	L23 ((search\$ or quer\$ or inquir\$ or enquir\$) same ((postal or mail\$) adj1 address\$))	2619
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<input type="checkbox"/>	L22 (((mail\$ or post\$ or home or business or office or correspondence)adj1 address\$) same dictionary)	31
<input type="checkbox"/>	L21 (address\$ same dictionary)	1077
<input type="checkbox"/>	L20 ((mail adj1 address\$) same dictionary)	17

DB=USPT; PLUR=NO; OP=OR

<input type="checkbox"/>	L19 L18 and (mail or (mail adj1 piece)).ti.	5
<input type="checkbox"/>	L18 L17 and (mail or (mail adj1 piece))	74
<input type="checkbox"/>	L17 lewis-cheryl.xa.	278

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR

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<input type="checkbox"/>	L15 (root same node\$ same leaf\$ same (postal adj1 address\$))	3
<input type="checkbox"/>	L14 ((search\$ or quer\$ or inquir\$ or enquir\$) same (postal adj1 address\$))	94
<input type="checkbox"/>	L13 ((mailpiece or (mail adj1 piece)) same dictionary)	6

<input type="checkbox"/>	L12 L11 and dictionary	0
<input type="checkbox"/>	L11 (mailpiece or (mail adj1 piece)).ti. <i>DB=USPT,USOC; PLUR=NO; OP=OR</i>	372
<input type="checkbox"/>	L10 (dictionary same (postal adj1 address\$))	5
<input type="checkbox"/>	L9 L7 and (entry or entries)	1
<input type="checkbox"/>	L8 L6 and (entry or entries)	2
<input type="checkbox"/>	L7 L6 and (dictionary or table or index\$ or directory or library or tree)	3
<input type="checkbox"/>	L6 (postal adj1 address\$).ti. <i>DB=USPT; PLUR=NO; OP=OR</i>	5
<input type="checkbox"/>	L5 ((postal adj1 address\$) same dictionary) <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR</i>	5
<input type="checkbox"/>	L4 L3 and (dictionar\$ or table\$ or index\$ or indice\$ or director\$)	6
<input type="checkbox"/>	L3 L2 and (search\$ or quer\$ or inquir\$ or enquir\$)	13
<input type="checkbox"/>	L2 (postal adj1 address\$).ti.	66
<input type="checkbox"/>	L1 (database same (postal adj1 address\$))	246

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1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

 November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: [pdf\(4.21 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 [Automatic segmentation of text into structured records](#)

Vinayak Borkar, Kaustubh Deshmukh, Sunita Sarawagi

 May 2001 **ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data**, Volume 30 Issue 2
Full text available: [pdf\(331.70 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a method for automatically segmenting unformatted text records into structured elements. Several useful data sources today are human-generated as continuous text whereas convenient usage requires the data to be organized as structured records. A prime motivation is the warehouse address cleaning problem of transforming dirty addresses stored in large corporate databases as a single text field into subfields like "City" and "Street". Existing to ...

3 [Research track papers: Mining reference tables for automatic text segmentation](#)

Eugene Agichtein, Venkatesh Ganti

 August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: [pdf\(255.20 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Automatically segmenting unstructured text strings into structured records is necessary for importing the information contained in legacy sources and text collections into a data warehouse for subsequent querying, analysis, mining and integration. In this paper, we mine tables present in data warehouses and relational databases to develop an automatic segmentation system. Thus, we overcome limitations of existing supervised text

U9/976,399

segmentation approaches, which require comprehensive manually label ...

Keywords: data cleaning, information extraction, machine learning, text management, text segmentation

4 Applied cryptography: Attacking and repairing the winZip encryption scheme

Tadayoshi Kohno

October 2004 **Proceedings of the 11th ACM conference on Computer and communications security**

Full text available:  pdf(171.91 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

WinZip is a popular compression utility for Microsoft Windows computers, the latest version of which is advertised as having "easy-to-use AES encryption to protect your sensitive data." We exhibit several attacks against WinZip's new encryption method, dubbed "AE-2" or "Advanced Encryption, version two." We then discuss secure alternatives. Since at a high level the underlying WinZip encryption method appears secure (the core is exactly Encrypt-then-Authenticate using AES-CTR and HMAC-SHA1), ...

Keywords: WinZip, Zip, applied cryptography, attacks, compression, encryption, security fixes

5 Generation of fast interpreters for Huffman compressed bytecode

Mario Latendresse, Marc Feeley

June 2003 **Proceedings of the 2003 workshop on Interpreters, Virtual Machines and Emulators**

Full text available:  pdf(323.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Embedded systems often have severe memory constraints requiring careful encoding of programs. For example, smart cards have on the order of 1K of RAM, 16K of non-volatile memory, and 24K of ROM. A virtual machine can be an effective approach to obtain compact programs but instructions are commonly encoded using one byte for the opcode and multiple bytes for the operands, which can be wasteful and thus limit the size of programs runnable on embedded systems. Our approach uses canonical Huffman co ...

Keywords: Java, canonical Huffman code, code compression, decoder

6 Implementing catalog clearinghouses with XML and XSL

Andrew V. Royappa

February 1999 **Proceedings of the 1999 ACM symposium on Applied computing**


Full text available:  pdf(753.90 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: SGML, XML, XSL, e-commerce

7 A query based approach for integrating heterogeneous data sources

Ruxandra Domenig, Klaus R. Dittrich


November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available:  pdf(213.15 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

8 The performance advantage of applying compression to the memory system

Nihar R. Mahapatra, Jiangjiang Liu, Krishnan Sundaresan

June 2002 **ACM SIGPLAN Notices , Proceedings of the workshop on Memory system performance**, Volume 38 Issue 2 supplement

Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [abstract](#), [references](#)


The memory system stores information comprising primarily instructions and data and secondarily address information, such as cache tag fields. It interacts with the processor by supporting related traffic (again comprising addresses, instructions, and data). Continuing exponential growth in processor performance, combined with technology, architecture, and application trends, place enormous demands on the memory system to permit this information storage and exchange at a high-enough performance ...

Keywords: Markov models, address compression, bandwidth, cache, data compression, entropy, instruction compression, latency, lossless compression, memory, register file, storage, traffic

9 Research track papers: Towards parameter-free data mining

Eamonn Keogh, Stefano Lonardi, Chotirat Ann Ratanamahatana

August 2004 **Proceedings of the 2004 ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available:  pdf(770.63 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Most data mining algorithms require the setting of many input parameters. Two main dangers of working with parameter-laden algorithms are the following. First, incorrect settings may cause an algorithm to fail in finding the true patterns. Second, a perhaps more insidious problem is that the algorithm may report spurious patterns that do not really exist, or greatly overestimate the significance of the reported patterns. This is especially likely when the user fails to understand the role of par ...

Keywords: anomaly detection, clustering, parameter-free data mining

10 Applying traits to the smalltalk collection classes

Andrew P. Black, Nathanael Schärli, Stéphane Ducasse

October 2003 **ACM SIGPLAN Notices , Proceedings of the 18th annual ACM SIGPLAN conference on Object-oriented programing, systems, languages, and applications**, Volume 38 Issue 11

Full text available:  pdf(335.91 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

Traits are a programming language technology that promote the reuse of methods between unrelated classes. This paper reports on a refactoring of the Smalltalk collections classes using traits. The original collection classes contained much duplication of code; traits let us remove all of it. We also found places where the protocols of the collections lacked uniformity; traits allowed us to correct these non-uniformities *without* code duplication. Traits also make it possible to reuse fragme ...

Keywords: collection hierarchy, inheritance, mixins, multiple Inheritance, refactoring, reuse, smalltalk, stream classes, traits

11 Innovative Document Systems: The multivalent browser: a platform for new ideas

Thomas A. Phelps, Robert Wilensky

November 2001 **Proceedings of the 2001 ACM Symposium on Document engineering**

Additional Information:

Full text available:  [pdf\(188.51 KB\)](#)

[full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Multivalent Browser is built on a architecture that separates functionality from concrete document format. Almost all functionality is made available via relatively small modules of code called behaviors that programmers can write to extend the core system. Behaviors can be as significant and powerful as parser-renderers for scanned paper, HTML, or TeX DVI; as fine-grained as hyperlinks, cookies, and the disabling of menu items; and as innovative or uncommon as in situ annotations, "lenses", ...

Keywords: annotation, architecture, digital, document, multivalent behavior, paper, scanned

12 Spoken dialogue technology: enabling the conversational user interface

March 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 1

Full text available:  [pdf\(987.69 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerce ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

13 Eager Haskell: resource-bounded execution yields efficient iteration

Jan-Willem Maessen

October 2002 **Proceedings of the ACM SIGPLAN workshop on Haskell**

Full text available:  [pdf\(161.87 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The advantages of the Haskell programming language are rooted in its clean equational semantics. Those advantages evaporate as soon as programmers try to write simple iterative computations and discover that their code must be annotated with calls to *seq* in order to overcome space leaks introduced by lazy evaluation. The Eager Haskell compiler executes Haskell programs eagerly by default, *i.e.*, bindings and function arguments are evaluated before bodies. When resource bounds are ex ...

14 Testing malware detectors

Mihai Christodorescu, Somesh Jha

July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 29 Issue 4

Full text available:  [pdf\(374.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In today's interconnected world, malware, such as worms and viruses, can cause havoc. A malware detector (commonly known as virus scanner) attempts to identify malware. In spite of the importance of malware detectors, there is a dearth of testing techniques for evaluating them. We present a technique based on program obfuscation for generating tests for malware detectors. Our technique is geared towards evaluating the resilience of malware detectors to various obfuscation transformations common ...

Keywords: adaptive testing, anti-virus, malware, obfuscation

15 Information retrieval session 6: categorization: Categorizing web queries according to geographical locality

Luis Gravano, Vasileios Hatzivassiloglou, Richard Lichtenstein

November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Full text available:  pdf(545.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Web pages (and resources, in general) can be characterized according to their *geographical locality*. For example, a web page with general information about wildflowers could be considered a *global* page, likely to be of interest to a geographically broad audience. In contrast, a web page with listings on houses for sale in a specific city could be regarded as a *local* page, likely to be of interest only to an audience in a relatively narrow region. Similarly, some search engine ...

Keywords: information retrieval, query classification, query modification, search engines, web search

16 Archiving scientific data

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

March 2004 **ACM Transactions on Database Systems (TODS)**, Volume 29 Issue 1

Full text available:  pdf(745.61 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Archiving is important for scientific data, where it is necessary to record all past versions of a database in order to verify findings based upon a specific version. Much scientific data is held in a hierarchical format and has a key structure that provides a canonical identification for each element of the hierarchy. In this article, we exploit these properties to develop an archiving technique that is both efficient in its use of space and preserves the continuity of elements through versions ...

Keywords: Keys for XML

17 Implementing functional logic languages using multiple threads and stores

Andrew Tolmach, Sergio Antoy, Marius Nita

September 2004 **ACM SIGPLAN Notices , Proceedings of the ninth ACM SIGPLAN international conference on Functional programming**, Volume 39 Issue 9

Full text available:  pdf(132.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Recent functional logic languages such as Curry and Toy combine lazy functional programming with logic programming features including logic variables, non-determinism, unification, narrowing, fair search, concurrency, and residuation. In this paper, we show how to extend a conventional interpreter for a lazy functional language to handle these features by adding support for reference cells, process-like and thread-like concurrency mechanisms, and a novel form of multi-versioned store. Our interp ...


Keywords: functional logic languages, multi-versioned stores, narrowing, residuation

18 Research session: data warehousing and archive: Archiving scientific data

Peter Buneman, Sanjeev Khanna, Keishi Tajima, Wang-Chiew Tan

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data**

Full text available: Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index](#)

 pdf(1.27 MB)[terms](#)

We present an archiving technique for hierarchical data with key structure. Our approach is based on the notion of timestamps whereby an element appearing in multiple versions of the database is stored only once along with a compact description of versions in which it appears. The basic idea of timestamping was discovered by Driscoll *et. al.* in the context of persistent data structures where one wishes to track the sequences of changes made to a data structure. We extend this idea to deve ...

19 [Reducing dictionary size by using a hashing technique](#)

D. J. Dodds

June 1982 **Communications of the ACM**, Volume 25 Issue 6

Full text available:  pdf(320.02 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Peterson [3] described a variety of techniques to implement a spelling checker for plain-language documents and discussed the central importance of the structure and size of the dictionary used by such a program. The technique presented here can produce a compact, easily accessed and modified dictionary. This is done by exploiting two characteristics of the spelling checker: the sole use of the dictionary is to determine whether given strings are, or are not, in the dictionary; and a small, ...

Keywords: data compression, hashing, searching

20 [A personal view of the personal work station: some firsts in the Fifties](#)

Douglas Ross

January 1986 **Proceedings of the ACM Conference on The history of personal workstations**

Full text available:  pdf(4.26 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

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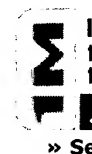
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